

The Outline of Proposed Amendment to Ministerial Ordinance

1 Item

Partial amendment of Regulations for Radio Equipment

2 Amendment to ministerial ordinance

Regulations for Radio Equipment

3 Reasons for amendment

To amend the technical standards of the low-power wireless system (unlicensed) to promote the use of advanced radio equipment, in response to the revision to upper limit of the antenna power by the Revision of the Radio Law (promulgated in December, 2010, enforced on 31 March, 2011) .

4 Outline of the amendment

(1) DETECTION SENSOR OF MOVING OBJECTS

This radio equipment is mainly used to recognize the position of an object or a person and the related technical standards will be amended in order to enlarge the perceivable range of this equipment.

Technical requirements of radio equipment

Item	New	Current
Antenna power	<u>0.02W</u> or less	<u>0.01W</u> or less
Antenna gain	24dBi or less However, when the equivalent isotropically radiated power is less than the value obtained by applying an antenna power of <u>0.02W</u> to the antenna with its gain being 24dBi, the shortage may be compensated for by the gain of the antenna.	24dBi or less However, when the equivalent isotropically radiated power is less than the value obtained by applying an antenna power of <u>0.01W</u> to the antenna with its gain being 24dBi, the shortage may be compensated for by the gain of the antenna.

(2) ANIMAL DETECTION REPORT SYSTEM

This radio equipment is used to keep track of wild animals and the related technical standards will be amended in order to meet the demand for the high power antenna in the use of mountains.

Technical requirements of radio equipment (excerption)

Item	New	Current
Class of emissions	<u>Not specified</u>	<u>F1D、F2D、A1D、M1D</u>
Antenna power	<u>1W</u> or less	<u>0.01W</u> or less
Carrier sense	① 10mW or less : Unnecessary ② <u>Higher than 10mW : Necessary</u> <u>The voltage of carrier sense level shall be 7mV or more when 2.14dBi of antenna gain is applied.</u>	Unnecessary
Transmission time restriction device	① Carrier sense: Unnecessary The total transmission time per 5 seconds shall be 1 second or less. ② <u>Carrier sense: Necessary</u> <u>When the radio wave is emitted continuously for more than 10 minutes, its transmission shall be automatically stopped.</u> <u>Another transmission shall start only after 1 second or more from the stop.</u>	The total transmission time per 5 seconds shall be 1 second or less.
Antenna	The absolute gain of the transmitting antenna shall be 2.14dB or less . <u>However, when the equivalent isotropically radiated power is less than</u>	The absolute gain of the transmitting antenna shall be 2.14dB or less .

	<u>the value obtained by</u> <u>applying an antenna power</u> <u>of 1W to the antenna with its</u> <u>absolute gain being 2.14db,</u> <u>the shortage may be</u> <u>compensated for by the gain</u> <u>of the antenna.</u>	
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- 5 Proposed date of entry into force
End of March, 2012